AMMONIUM HYPOPHOSPHITE

C	CAUTION	ARY RESPC	INSE INFORMATION		4. FIRE HAZARDS	7. SHIPPING INFORMATION		
Common Synonyms Solid crystals Phosphinic acid, ammonium salt Sinks and mixe		Solid crystals Sinks and mixes wi	d crystals White is and mixes with water.		 4.1 Flash Point: Currently not available 4.2 Flammable Limits in Air: Currently not available 4.3 Fire Extinguishing Agents: Carbon 	 7.1 Grades of Purity: 98% pure 7.2 Storage Temperature: Cool 7.3 Inert Atmosphere: Currently not available 7.4 Venting: Currently not available 		
Stop leak if Isolate and Notify local Protect wate	possible. remove discha health and polle er intakes.	rged material. ution control agencie	15.		dioxide, dry chemical, or water spray 4.4 Fire Extinguishing Agents Not to Be Used: Currently not available 4.5 Special Hazards of Combustion	 7.5 IMO Pollution Category: Currently not available 7.6 Ship Type: Currently not available 7.7 Barge Hull Type: Currently not available 		
Fire FLAMMABLE. Flammable gas formed when heated to decomposition. Extinguish with CO ₂ , dry chemical, or water spray.				Products: Decomposes at 240°C emitting phosphine and POx. Phosphine is a very toxic gas which ignites spontaneously.	8. HAZARD CLASSIFICATIONS 8.1 49 CFR Category: Not listed 8.2 49 CFR Class: Not pertinent			
Exposure	Not harmful	t harmful			 4.6 Benavior in Fire: Decomposes when heated with evolution of phosphine which ignites spontaneously. 4.7 Auto Ignition Temperature: Currently not 	8.3 49 CFR Package Group: Not listed. 8.4 Marine Pollutant: No 8.5 NFPA Hazard Classification: Not listed		
Water Effect of low concentrations on aquatic life is unknown. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes. Notify operators of nearby water intakes.				Available A.8 Electrical Hazards: Currently not available A.9 Burning Rate: Currently not available A.10 Adiabatic Flame Temperature: Currently	8.7 EPA Pollution Category: Not listed 8.8 RCRA Waste Number: Not listed 8.9 EPA FWPCA List: Not listed			
1. CORRECTIVE RESPONSE ACTIONS Stop discharge Collection Systems: Pump; Dredge			2. CHEMICAL DESIGNATIONS 1. CG Compatibility Group: Not listed 2. Formula: NH4/EPO₂ 3. IMO/UN Designation: Not listed 4. DOT ID No.: Not listed 5. CAS Registry No.: Currently not available 6. NAERG Guide No.: Not listed 7. Standard Industrial Trade Classification: 51481		4.11 Stoichometric Air to Fuel Ratio: Currently not available 4.12 Flame Temperature: Currently not available 4.13 Combustion Molar Ratio (Reactant to Product): Currently not available 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed 5. CUEMICAL REACTIVITY	 9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Physical State at 15° C and 1 atm: Solid 9.2 Molecular Weight: 83.0271 9.3 Boiling Point at 1 atm: Decomposes 464°F = 240°C = 513.2°K 9.4 Freezing Point: 392°F = 200°C = 473.2°K 9.5 Critical Temperature: Currently not available 9.6 Critical Pressure: Currently not available 9.7 Covid: Covid		
3. HEALTH HAZARDS 3.1 Personal Protective Equipment: Rubber gloves, safety glasses, and normal protective gear. 3.2 Symptoms Following Exposure: Non-toxic or low toxicity unless heated to decomposition (240°C). 3.3 Treatment of Exposure: Not applicable 4.4 TLV-TWA: Not listed. 3.5 TLV-STEL: Not listed. 3.6 TLV-Ceiling: Not listed. 3.7 Toxicity by Ingestion: Currently not available 3.8 Toxicity by Ingestion: Currently not available. 3.9 Chronic Toxicity: Currently not available 3.10 Vapor (Gas) Irritant Characteristics: Currently not available 3.11 Liquid or Solid Characteristics: No appreciable hazard. Practically harmless to the skin. 3.12 Odor Threshold: Currently not available 3.14 OSHA PEL-TWA: Not listed. 3.15 OSHA PEL-TWA: Not listed. 3.16 OSHA PEL-Ceiling: Not listed. 3.17 EPA AEGL: Not listed				 5.1 Reactivity with Water: No reaction 5.2 Reactivity with Common Materials: No reaction 5.3 Stability During Transport: Stable 5.4 Neutralizing Agents for Acids and Caustics: Not pertinent 5.5 Polymerization: Not pertinent 5.6 Inhibitor of Polymerization: Not pertinent 6. WATER POLLUTION 6.1 Aquatic Toxicity: Currently not available 6.2 Waterfow Toxicity: Currently not available 6.3 Biological Oxygen Demand (BOD): Currently not available 6.4 Food Chain Concentration Potential: None 6.5 GESAMP Hazard Profile: Not listed 	 9.7 Specific Gravity. 1:034 at 100m temperature 9.8 Liquid Surface Tension: Not pertinent 9.9 Liquid Water Interfacial Tension: Not pertinent 9.10 Vapor (Gas) Specific Gravity: Not pertinent 9.112 Latent Heat of Vaporization: Not pertinent 9.12 Latent Heat of Vaporization: Not pertinent 9.13 Heat of Decomposition: Currently not available 9.14 Heat of Solution: Endothermic at infinite dilution (25°C) 34.7 Btu/lb = 19.3 cal/g = 8.07 X 10⁵ J/kg 9.16 Heat of Polymerization: Not pertinent 9.17 Heat of Fusion: Currently not available 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: Currently not available 			
				NOT	ΈS			

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9.20 SATURATED LIQUID DENSITY		9.21 LIQUID HEAT CAPACITY		9.22 LIQUID THERMAL CONDUCTIVITY		9.23 LIQUID VISCOSITY	
Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F	Temperature (degrees F)	British thermal unit inch per hour-square foot-F	Temperature (degrees F)	Centipoise
	N O T		N O T		N O T		N O T
	P E R T I N E N T		P E R T I N E N T		P E R T I N E N T		P E R T I N E N T

9. SOLUBILIT	24 Y IN WATER	9.25 SATURATED VAPOR PRESSURE		9.26 SATURATED VAPOR DENSITY		9.27 IDEAL GAS HEAT CAPACITY	
Temperature (degrees F)	Pounds per 100 pounds of water	Temperature (degrees F)	Pounds per square inch	Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F
77	100.000		N O T		N O T		N O T
			I P R T I N E N T		- PERTINENT		- PERT-NENT